W. S. Reynolds, 1847. Uming her vellemoherter PR Map



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TO THE PUBLIC.

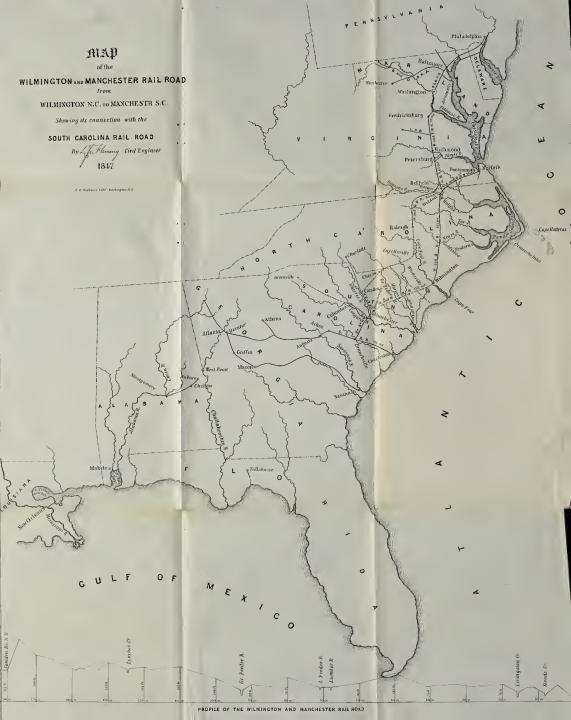
In submitting the accompanying Map and estimates for the construction of the Rail Road from Wilmington, N. C., to, or near, Manchester, in South Carolina, to fill up the gap from North to South, together with the estimated expenses and income of said Road, it may very justly be said that the necessity for the enterprise is obviously so great that we need say but little to recommend it to public favor.

The mere fact that it is a "connecting link," and that there is but one more from Maine to Louisiana, which is gradually being filled up, to render the inland communication by Rail Road and Steamboat entire and complete, will strike every person at a glance, not only of its great importance, but with the certainty of its being a profitable investment for capital.

Probably in no direction, could a line of 158 miles, the length of this Road, be found of an easier construction. It is nearly straight and passes mostly through pine and uncleared lands, abounding in timber of the finest quality; of slight grades; with one exception, none over 30 feet to the mile, and but few so great as that, entirely free from rock excavation, and not a great deal even of stiff clay, being chiefly of black dirt and sand of easy excavation, and over water courses admitting of low and cheap bridges.

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The Wilmington & Raleigh Road running through a similar country, and but 4 miles longer, favorably supports the estimates of this Road, the work of the former having been accomplished within the estimates, as will be seen by



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reference to the following tables extracted from the Report of the Engineer upon the completion of the work in 1840.

	ESTIMATED Cost.	ACTUAL Cost.
Excavation and Embankment,	\$385,624 46	\$316,320 62
Superstructure—rails, sills, knees and iron,	582,085 34	
Bridges, 6 Locomotives,	120,340 00 48,000 00	48,000 00
20 Coaches,	$20,000 00 \\ 24,000 00$	24,000 00
Warehouses & water stations on the line, Workshops, Sheds, Warehouses, and		,
wharves at the termination of the road Pay of Engineers, incl'd'g contingencies		
3 Steamboats, Land Damages,	180,000 00 13,950 20	180,000 00 16,262 60
<i>5 ,</i>		\$1,491,056 95

The estimated cost of the present Road, with the stock necessary to start it, shews a less aggregate amount than that of the Wilmington & Raleigh Road, although the item for superstructure is nearly doubled, caused by the increased weight of iron and greater amount of Timber. From a comparison of the estimates for this and the Wilmington & Raleigh Road, it may be said with entire confidence that the cost of the Road will not come up to the estimates, first, because it is not so long, and runs over a country presenting a more uniform surface than the Wilmington & Raleigh Road, and secondly, because labor, provisions, and materials, are much cheaper than when that Road was built; and again it is but fair to calculate that experience will befriend us in the lettings of the contract.

REPORT OF THE ENGINEERS

On the Route to connect with the South Carolina Rail Road.

To the Subscribers to the Survey of the Route for a Rail Road to connect the Wilmington & Roanoke Rail Road with the Camden Branch Road:

GENTLEMEN: In compliance with your wishes and instructions, a corps was organized and the survey of the Route for the contemplated Road commenced in July last.

A Report upon the Survey, together with a Map and profile of the route, we beg leave herewith to submit to you.

At the commencement, various schemes were proposed for making the necessary connection with the Wilmington and Roanoke Rail Road. One, to cross the Cape Fear, below the junction of the two rivers, with a bridge or steam-ferry boat; thence over the swamp on Eagle's Island and Brunswick river.

A second, to start from the Depot of the road on the hill, and curving around to cross the North East at or near Hilton; thence across the point between the two rivers and over the "Northwest." And a third, to commence at some point on the west side of the Northwest branch of the Cape Fear, and above the point at which the Brunswick breaks from it—and from this point the connection to be made by means of a small steamboat.

This last, being decidedly the cheapest, motives of present economy determined us in selecting it as the point at which a line to serve as a basis for our estimates should commence.

Starting, then, at "Meares' Bluff," three miles above town, the table land being reached at an elevation of fourteen feet above tide water, the line pursues a north-westwardly direction, for the purpose of avoiding the main body of the Green Swamp and Waccamaw Lake, to near Livingston's Creek, before reaching which, sufficient northing being obtained, a change of direction is made. Crossing the creek at a favorable place, about one and a half miles south of the main road, the route, passing a half mile north of the Waccamaw

Lake and about one mile south of Whitesville, is continued straight, a distance of forty-five miles, to within two miles of Fair Bluff on the Lumber river, a designated point in the line. From thence, the route, passing about a half mile back of Fair Bluff, and crossing the State line two miles below it, runs down on the ridge between the Lumber river and Gapway Swamp, and crosses the former below the mouth of Ashpole Swamp and near Floyd's Ferry. Thence, below the foot of the ridge between Raft Swamp and the Little Pedee, and across the latter about one mile above Dr. Gilchrist's bridge, the route follows the ridge between the "Big Sister" and "Maiden Down" bays, and passes about a quarter of a mile north of Marion Court House. From thence to the Great PeDee river, a favorable point for crossing, which is found near the head of Mr. Gibson's dam. Crossing the river at this place, and the river swamp, two miles in extent, the route after crossing Polk swamp, follows the ridge between Highhill and Jeffries' creek, to a point near the road leading from Darlington Court House to Ebenezer church. From thence the route is continued straight, crossing Lake and Sparrow Swamps; Lynche's oreek, Black river, Scape O'er, and Rocky Bluff Swamps, to a point south of and near Sumterville, a distance of thirty-seven miles.

Thus far the country over which the line has passed, is generally so flat and uniform as to present but little variety, and with some few unimportant exceptions, it abounds in timber of the very best quality for the construction of the road.

The graduation throughout will be comparatively slight, and of easy execution; consisting, excepting where streams and swamps are crossed, chiefly of light embankments, sufficiently high to protect the road from the water that usually remains upon the remarkably flat surface of the earth in wet weather.

From Sumterville, the route passes over a country presenting a similar appearance to that already described, until it reaches Col. John Moore's plantation. Passing about a quar-

ter of a mile to the south of his house, it crosses the head of "McR ae's Mill Pond," and ascending from this, strikes in Mr. Rees' field, the ridge of Hills, commencing below Manchester and bordering upon the low grounds of the Watcree river, known as the "High hills of the Santee." Passing the ridge at its lowest point, in Mr. Rees' field, at an elevation of 300 feet above tide water, and about one hundred and seventy-five feet above the Camden branch road, the route, by a continuous curve, of from 2,000 to 3,000 feet radius, with a grade of fifty feet to the mile, and with some heavy excavations and embankments, connects with the Camden road.

Thus presenting a road 158 miles in length, of which 151 miles are straight, and the balance, except that immediately at the connection, of curves of over 6,000 feet radius; with fewer heavy grades, and with less excavation and embankment than any road of similar length in the country. It may be proper here to state that we are of the opinion that further examination would demonstrate the practicability of a better route over the "High hills of the Santee" being found, than the one here presented; time with us, being limited, prevented our going into the examination as minutely as we would otherwise have done.

Before proceeding with the estimates a description of the kind of road estimated for becomes necessary. The graduation is intended for a single track only, and consists of excavations with slopes of 3-4 horizontal to 1 perpendicular; ten feet wide at grade with side ditches, five feet wide at top, two feet deep and two feet wide at bottom. Embankments twelve feet wide at grade, and with slopes of 1 1-2 horizontal to 1 perpendicular.

The superstructure to consist of sub-sills 4 by 10 inches under the bearing of the rails, and bedded so that their upper surfaces shall be two inches below the graded surface of the road, and at their joints resting on cross pieces of similar dimensions. On these the cross ties or sills 8 by 8 and 8 feet long, are placed three feet apart from centre to centre; every other one being notched on its upper surface for the reception

of the rail; the alternate sill being brought to a level with the other by being notched on the under side and let down upon the subsill. Upon the sills, the rails, 6 by 7, four feet 8 1-2 inches apart, and chamfered on their inner edges, one and a half-inches, are placed; being confined to the notched sill by means of a wooded key, and kept in its place on the other by a wooden bracket on the outside of the rail. Over streams and swamps, Lattice bridges and Trestle work has been estimated for. The former on "Town's" plan, roofed and weatherboarded to protect them from the weather, and of these, there are four, viz: three of one span each, across Livingston's creek, Lumber, and Little Pee Dee rivers, and one of two spans, with a draw over the Great Pee Dee.

The trestle-work, where, as in the Great Pee Dee swamps, it is not over twelve feet in height, is on the plan adopted on the South Carolina roads; the piles being capped and cross-braced, with string-pieces 10 by 14 inches notched on the caps and secured by means of wooden keys, and on these string-pieces the road laid. In the Great Pee Dee swamp, Trestles of the form used on the Wilmington Road have been estimated for, in consequence of the height at which the swamp has to be crossed, to protect the road from the action of freshets.

For a road built in this manner, with a plate rail 2 1-2 by 1 inch, double the weight of that ordinarily used, and consequently costing about \$1,400 per mile more; (and that it will answer well all the purposes for which it is intended we think no one can doubt) we present the following estimates, viz:

For Excavations and Embankments, including		
grubbing and clearing,	272,581	40
For Superstructure, including Turnouts,	854,622	90
For Bridging,	105,935	00
-		

1,233,139 30

Brought over,	.]	,233,139	30
For Warehouses and Water stations	on line and		
at each end,		40,000	00
For pay of Engineers, including co	ntingencies;		
(this item depending upon the tin	ne occupied		
in the construction of the road,)		40,460	70
For land damages		15,000	00
			- 1
	1	,328,600	00
For 10 Locomotive Engines,	70,000 00		
For 8 Passenger Cars,	14,000 00		
4 Baggage and Mail Cars,	4,800 00		
30 Eight wheel box Cars,	18,000 00		
30 " " flat Cars,	15,600 00	122,400	00
Add for Steamboat,	£	15,000	00
,			
	\$1	4,466,000	00

It will be seen that the route on which the estimates are made, is the one adopted by the Convention held at Marion Court House, in August last. At that Convention a different route was advocated, viz: one to run from Marion Court House to Sumterville direct; and its friends were desirous that a Survey of it should be made. Our limited time placed this out of our power; a reconnoisance, however, was made and we intended, in compliance with a promise to that effect, to present an approximate estimate of the cost of construction on it; but learning that the charter presented to the Legislatures of the two States designates, in conformity with the resolutions passed at the Marion Convention, the precise route over which the road is to be built, we deem it unnecessary at present to do so.

JOHN C. McRAE, L. J. FLEMING,

Civil Engineers.

Wilmington, N. C., Dec. 12, 1846.

Since the foregoing report was made we have been placed in possession of information that enables us to make a more complete table of receipts and expenditures than that which accompanied it, this we herewith present.

ESTIMATED BUSINESS OF THE ROAD.

PASSENGERS.

80 Passengers per day between Manchester and Wilmington, including way travel, at \$5 cach, would give \$400 per day, and for the year, \$146,000 00

FREIGHT.

20,000 bales Cotton at 75 cts. each,	\$15,000 00		
Turpentine and Spirits ditto,	23,000 00		
Bacon, Corn and Sundries,	12,000 00		
Transportation of Goods,	22,000 00		
		72,000 0	00
Transportation of Mail at present 1	38,000 (00	

Total Receipts,

\$256,000 00

ESTIMATED EXPENSES—IN DETAIL.

PERMANENT EXPENSES.

1 President,	\$2,500 00
1 Superintendent of Repairs,	1,500 00
1 Secretary and Treasurer,	1,500 00
2 Clerks at \$600 each,	1,200 00
2 Agents Transportation, 1 at ea	ach
end,	1,600 00
2 1 each, Master Carpenter as	nd
Machinist,	1,600 00
10 Depot Agents, at \$250 each	2,500 00
10 Overseers of Road repairs at \$3	360 3,600 00
80 Hands for repairs and water st	ta-
— tions at \$125,	10,000 00
109	26,000 00

	· ·		
	Brought over,		26,000 00
	EXPENSES OF SI	HOPS.	·
8 Machinists at	\$2 per day,	16 00	
5 Blacksmiths,	2 . "	10 00	
5 Helpers,	50c. "	2 50	
6 Carpenters,	1 50 "	9 00	
6 Yard Hands,	33 1-3 "	2.00	
30 Hands for 313	days work yearly	at 39 50	12,363 50
			\$38,363 50
	TRAIN EXPENS	ES.	
1 Engineer, a	t \$2 per day	2 00	
1 Fireman,	67c. "	67	
1 Train Agent,	1,50 "	1 50	
1 Train Hand,	60c. "	60	
2 cords Wood per	trip of half length	of	
Road, at \$1 p	er cord,	2 00	
Oil for do.		50	
Expenses per day f	or 1 train half leng	th of	
Road,		\$7 27	
And for the year	for 8 trains, viz: d	laily	0.4 000 10
	reight trains at \$7,		21,228 40
12 Extra hands for		1,25,	1,500 00
Add for contingence	eies,		14,908 10
m . 1			### 000 00
Total exper	ises,		\$76,000 00
	RECAPITULATIO	N.	
Patimated Descints			256,000 00
Estimated Receipts			76,000 00
" Expense	9,		10,000 00
Sumplus canal to	12 per cent on cap	vital di	180,000 00
	12 per cent on cap		100,000 00

Surplus, equal to 12 per cent on capital, \$180,000 00 In this estimate it will be seen that we have put down the number of passengers at 80 per day, which we are satisfied is low enough, indeed in the opinion of many too low, for intelligent men from various portions of the country all concur in the opinion that the construction of this connecting link, which will free the great Atlantic Mail Route from its only objectionable feature, the trip by sea from Wilmington to Charleston, will increase the travel to more than double what it at present is upon the Wilmington & Raleigh Road, which amounts to 50 per day. Again, when it is recollected that at the terminus in South Carolina, we join with three Roads, two of which are about being extended into a populous country, and must, therefore, bring in a great accession of travel, and farther, that in a period of 6 years the travel of the country has been found to double, who can doubt the correctness of the estimate?

The freight, we believe we have put down below the mark, with a determination of not deceiving, if it can possibly be avoided; we prefer risking an injury to the enterprise, to disappointing a Stockholder. The estimate for Turpentine and Spirits do. is based upon the transportation of the same articles upon the Wilmington & Raleigh Road, which as regards their manufacture would have no advantage over the contemplated Road, on the contrary, the advantages would be in favor of the latter, because of its passing through a country equally as well adapted for their manufacture, and which has never yet been tapped, and also because of the increased facilities for their transportation which this Road would afford.

The subscriptions to the enterprise have now reached between \$400,000 and 500,000 and the Commissioners are still actively engaged in receiving more; yet until it reaches the sum of \$750,000 the work will not be commenced.—When it shall be, no doubt can reasonably be entertained that a good deal of stock will be taken by the contractors, the subscriptions being placed upon such favorable terms, viz: \$5 per share every 90 days after the commencement of the work, taking, therefore, 5 years for the payment of the whole subscription.

The importance of the work to the United States in af-

fording a more speedy and certain transmission of the great Northern and Southern Mail, to the States of North and South Carolina, to the town of Wilmington, and to the inhabitants, both along the line of the Raleigh Road and this, is such that we cannot doubt, but that all interested will promptly come forward and aid us.

We submit herewith a compilation from the census of 1840, which shews very clearly the capabilities of the country through which the Road will pass to support such an enterprise. And in connection with it, we may remark that it may have been correct in 1840, but certainly cannot be so at this time, for in many of the articles the production has since, very much increased. For instance, it gave, in the article of Cotton, for the Districts of Marion, Darlington, Sumter and Marlboro', for the whole, but 18,800 bales of 350 lbs. each, while we are assured, from recent estimates made by persons well acquainted with each of the Districts, that over 60,000 bales are made in them.

EDW'D B. DUDLEY, President W. & M. R.R. JOHN C. McRAE, General Agent.

Wilmington, N. C., August, 1847.

Compilation from the United States Census of 1840,

Population.	5,265 8.022 3.941 10.370 8,909 15,077	51,584 13,932 5,755 14,822 8,408 8,574 27,892	79,383	130,967
Number of Stores.	411 60 87	26 26 28 35 35 35	124	175
Value of Lumber,	13,670 44,868 21,000 27,804	107.342	107,342	107,342
Barrels Naval Stores.	4,867 14,281 725	19,873		19,873
Pounds of Cotton.	7,868 58,193 24,035 547,596 1,794,154 9,078,659	11,510,505 603,496 40,780 1,231,985 2,446,088 268,122 2,298,712	, - , -	18,399,688
Bushels of Rye.	631 641 912 1,649 467	4,300 1,353 381 4,026 1,417 853 1,538	9.568	13,868
Bushels of Oats.	4,954 375 1,579 12,942 25,528	45,378 16,416 126,477 22,164 16,038 64,230	161,451 45,378	Z00,5Z91
Rushels of Potatoes,	47,426 55,141 49,282 54,632 31,171 32,744	270,396 61,530 50,676 84,812 29,547 21,620 263,711	270,396	182,2921
Pounds of Vool.	2,739 7,574 6,724 16,246 10,337 11,832	55,452 11,289 4,734 13,750 3,616 3,091 14,073	55,452	100,001
Bufshels of Corn.	36,357 180,705 79,155 248,195 247,169 416,102	1,207,683 377,041 317,041 31,641 457,193 275,999 198,000 681,975	2,071,849	3,413,554
Bushels of Wheat.	1,549 1,366 2,646 20,347 39,991	65,899 4,033 1,720 13,309 9,276 5,859 7,125	41,322 65,899	101,661
Number of Swine.	9,512 21,686 17,406 29,274 18,841 28,492	125,211 39,837 22,196 36,856 15,915 18,834 47,260	180,898 125,211	900,1091
Number of Sheep.	1,889 5,855 5,600 12,513 7,226 10,401	43,484 8,352 4,857 6,082 2,893 3,423 8,655	34,262 43,484	021611
Number of Cattle.	7,237 9,789 8,554 14,830 10,653 15,461	66,524 21,909 13,182 15,438 9,374 9,824 32,961	102,688 66,524	100,616
Counties.	Brunswick, Bladen, Columbus, Robeson, Richmond, Anson,	North Carolina, Marion, Horry, Darlington, Marlboro', Chesterfield,	South Carolina, N. C. bro't. down. Grand Total	Cidilly & Orali



